230W 7R BEAM SPOT WASH 3IN1
MOVING HEAD LIGHT

MJ-1020

User Manual

Thank you for choosing our beam spot Wash moving head light. For the sake of your safety, Please read and follow these instructions carefully and keep this manual in a safe place for future reference.

Catalogue

Chapter Page

Safe Usage Of The Product ----------3
Install The Equipment ----------4
Fitting The Lamp----------4
Power Code Connection ----------5
DMX Connection ----------5
DMX Terminator ----------6
Function Set ----------6
Operation Menu ----------7
Maintenance ----------10
Keeping The Product Clean ----------11
Trouble Shooting----------11
Equipment and Appendix----------11
Channel List----------12
Technical Parameters----------12

☆Important notice:

• In this instruction for use contains about the installment and the use aspect important information of the beam moving head. When installing and using, you need to look this usage instruction strictly.

• Before open the beam moving head and if you want to do the repair work, please make sure the power source is at the separation condition.

• Every unit is tested completely and packed properly by the manufacturer. Please make sure the packing and the unit are in good condition before installation and use. Should there be any damage caused by transportation, consult your dealer and do not use the unit. Any damage caused by improper use will not be assumed by the manufacturer or dealer.

Attention: Unceasingly carries on the product improvement about our company the policy, in this instruction booklet carries the data will have the possibility to be able to change in the future, when no longer separate notice change matters concerned. Our company retains when the product improvement changes the related specification the authority. This instruction booklet publisher cannot be responsible regarding this instruction booklet in information accuracy, also cannot the related consequence which causes regarding these information be responsible.

SAFE USAGE OF THE PRODUCT

When unpacking and before disposing of the carton, check there is no transportation damage before using the product. Should there be any damage caused by transportation, consult your dealer and do not use the apparatus.

The product is for indoor use only, IP20. Use only in dry locations. Keep this device away from rain and moisture, excessive heat, humidity and dust. Do not allow contact with water or any other liquids.

The product is not designed or intended to be mounted directly on to inflammable surfaces

The product is only intended for installation, operation and maintenance by professional person.

The product must be installed in a location with adequate ventilation, at least 50cm from adjacent wall surfaces. Be sure that no ventilation slots are blocked.

Do not product the beam onto inflammable surfaces, minimum distance is 12m.

Avoid direct exposure to the light from the lamp. The light is harmful to the eye.

Do not attempt to dismantle or modify the projector in any way.

Electrical connection must only be carried out by qualified personnel.

Before installation, ensure that the voltage and frequency of power supply match the power requirements of the projector.

It is essential that each projector is correctly earthed and that electrical installation conforms to all relevant standards.

Do not connect this device to any other types of dimmer apparatus.

Make sure that the power-cord is never crimped or damaged by sharp edges. Never let the power-cord come into contact with other cables. Only handle the power-cord by the plug. Never pull out the plug by tugging the power-cord.

Keep the light clean. Do not touch the light glasss with bare hands.

The product should always be installed with a secondary safety fixing. On the projector base brink, there is a hole for the safety cord provided. It should be attached as shown in “installing the projector” section.

The lamp used in this projector is a discharge lamp. After switching off don't attempt to restart the projector until lamp has cooled, this will require approx 15 minutes. Switching the lamp on and off at short intervals will reduce the life of both the lamp and the projector. But occasional breaks will prolong the life of the lamp and projector.

Never run the projector without a lamp.

The light shall be changed if it has become damaged or thermally deformed or reached its life limit.

Shields and lens shall be changed if they have become visibly damaged to such an extent than their effectiveness is impaired, for example by cracks or deep scratches.

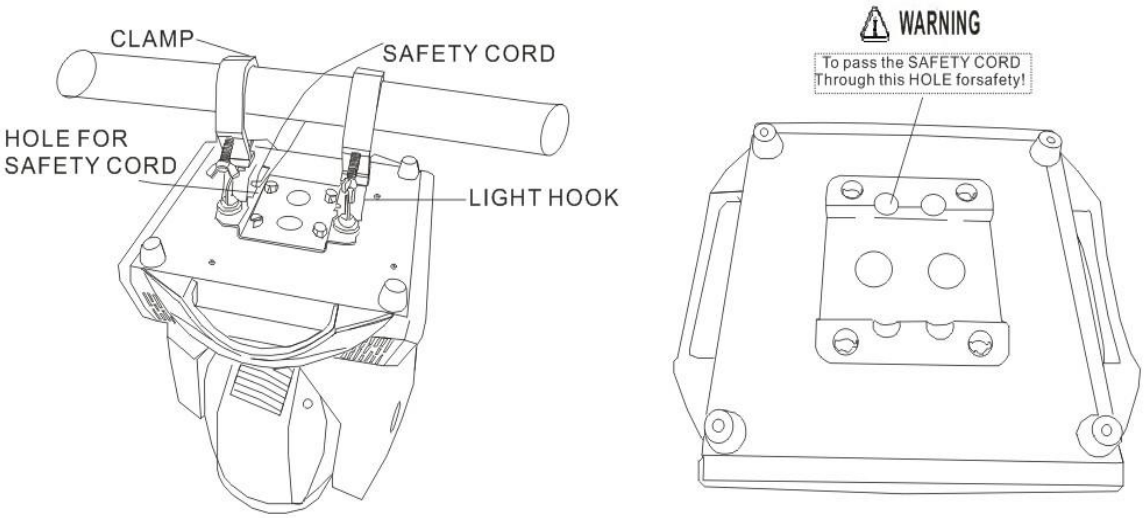
Exterior surface temperatures of the luminaire after 5 minutes operation is 70℃, when steady state is achieved 140℃

There is no user serviceable parts inside the projector, do not open the housing and never operate the product with the covers removed.

If you have any questions, don’t hesitate to consult your dealer or manufacturer.

★Always disconnect from the mains, when the device is not in use or before cleaning it or before attempting any maintenance work !

Install The Equipment:



Use 2pcs clamp and 1safety cord(need to purchase).Use clamp fix with light hook which in the packing box with light, then use screw install to the bottom of lamp. Hang the fixture on the structure and fasten the screws attached to each clamp. Make sure the light is installed reliable, and confirm the light which you fixed is strong enough for hanging the light. Base on safety reason, please according to the above picture using safety wire cross the light to make it strong enough again.

Warning!

1. Unlock the PAN and TILT before the 1st application of the light for safety.
2. Hook and clamp only use for hanging the light. Do not use clamp as a tool to move fixtures.
3. Base on safety reason, please use the safety cord which can afford the weight ten times of lamp through Insurance hole for auxiliary hanging.
4. Don't use the handle of the moving head light to fixed or lift!

Fitting The Lamp:

.Loosen 4 fast-fit screws and remove the back cover, when fitting/replacing the lamp.
.Do not touch the bulb of the new lamp with bare hand so as not to influence the beam output.
.Do not harm the sticking out point of the lamp during its installation.
.Fit new lamp and close the back cover by fastening 4 fast-fit screws when finished lamp installation.
.Lamp work will reach a very high temperature, Vapor discharge lamp can not continue to supply this physical characteristics, therefore, the power completely cool for 10 minutes before on the operation. Failure to do so will lead to a high-pressure discharge and short circuit burned out the computer's control panel components.

Notes: Unplug the light from power before lamp installation or replacement and wait for it to cool.

Power Code Connection:

Connect the power cord as follows:

L (live) =brown

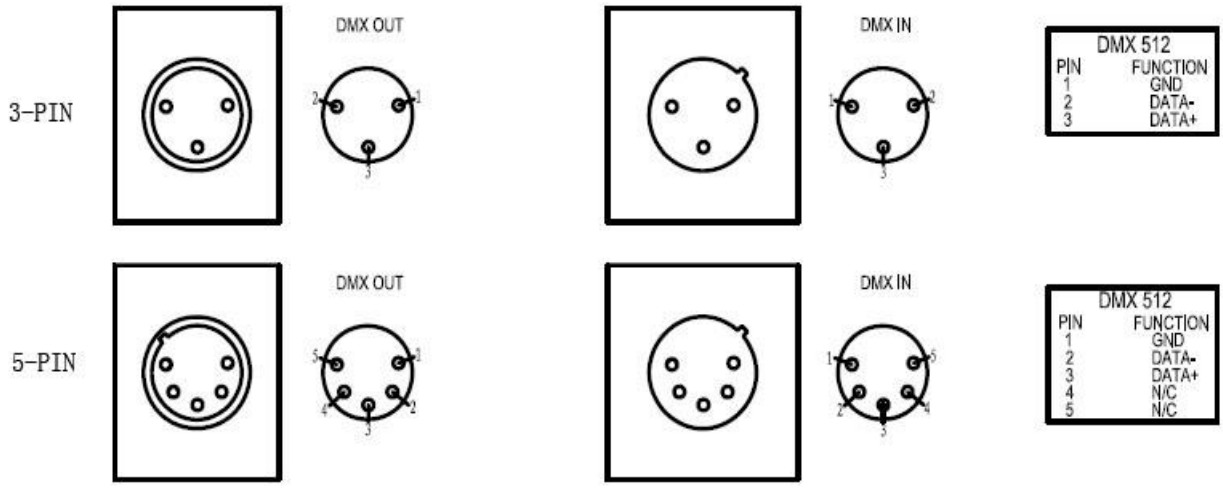
E (earth) =yellow/green

N (neutral) =blue

Use the plug provided to connect the mains power to the projector paying attention to the voltage and frequency marked on the panel of the projector. It is recommended that each projector be supplied separately so that they may be individually switched on and off.

★It is essential that each projector is correctly earthed and the electrical installation conforms to all relevant standards.

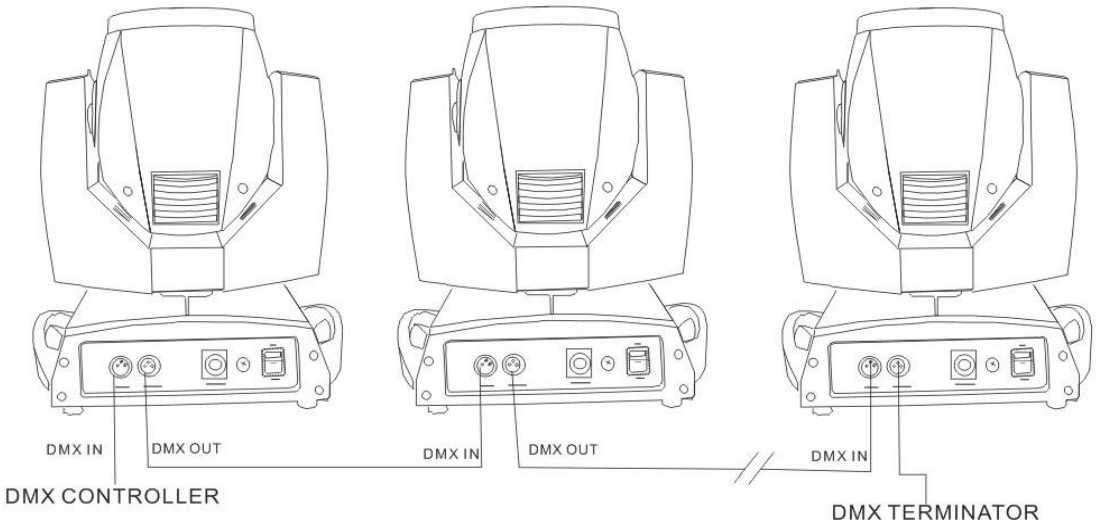
DMX Connection:



Connection between the controller and a projector and between one projector and another must be made with a 2 core-screened cable, with each core having at least a 0.5mm diameter. Connection to and from the projector is via cannon 3 pin (which are included with the projector) XLR plugs and sockets. The XLR's are connected as shown in the figure above.

Note: Care should be taken to ensure that none of the pins touch the metallic body of the plug or each other. The body of the plug is not connected in any way. The XLED 590 accepts digital control signals in protocol DMX512 (1990).

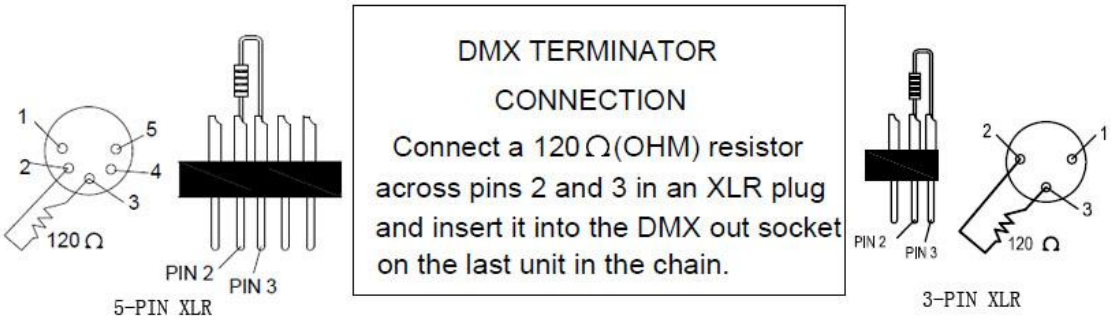
Connect the controller's output to the first fixture's input, and connect the first fixture's output to the second fixture's input and connect the rest fixtures in the same way. Eventually connect the last fixture's output to a DMX terminator as shown in the figure below.



DMX Terminator:

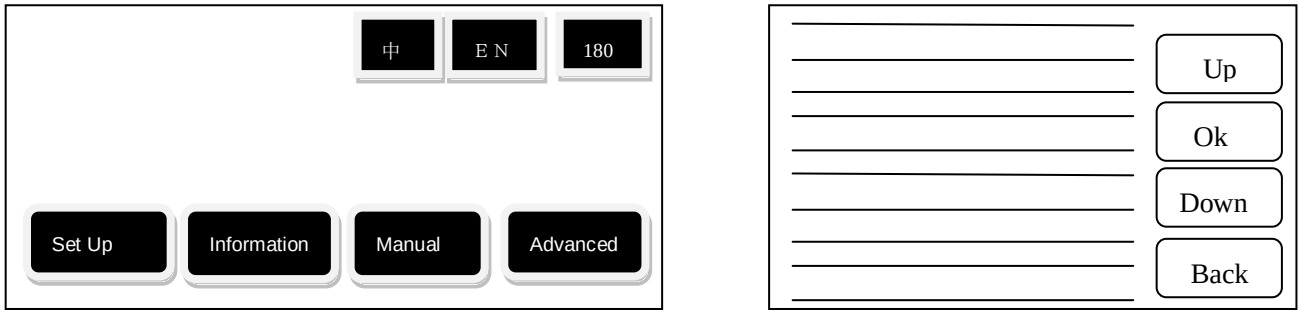
In the Controller mode, at the last fixture in the chain, the DMX output has to be connected with a DMX terminator. This prevents electrical noise from disturbing and corrupting the DMX control signals.

The DMX terminator is simply an XLR connector with a 120Ω (ohm) resistor connected across pins 2 and 3, which is then plugged into the output socket on the last projector in the chain. The connections are illustrated below.

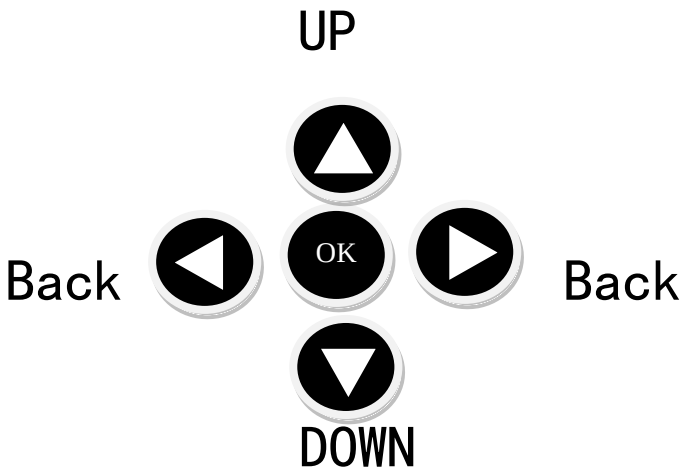


Function Set:

1. Touch Operation



2.Button Opertion

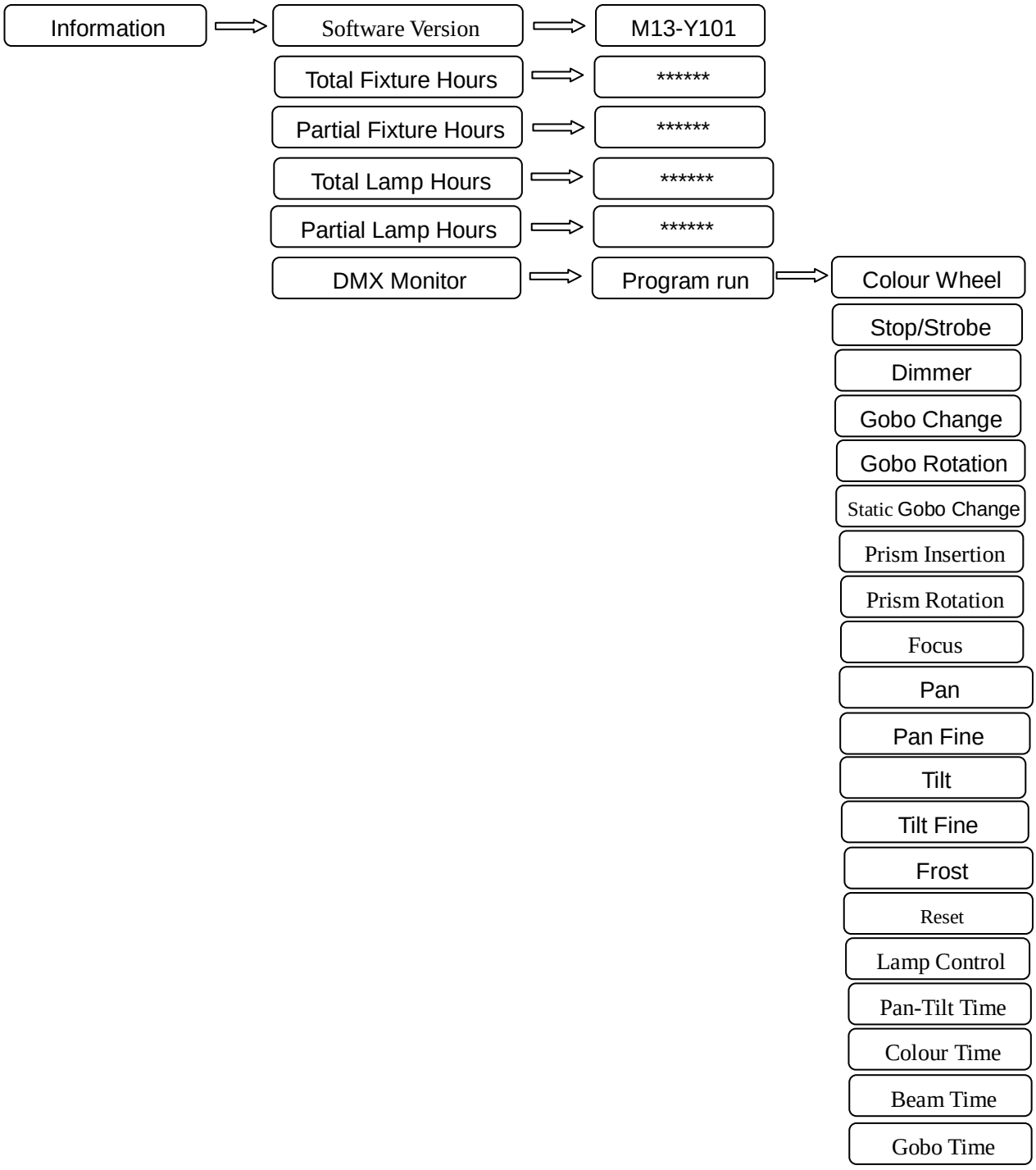


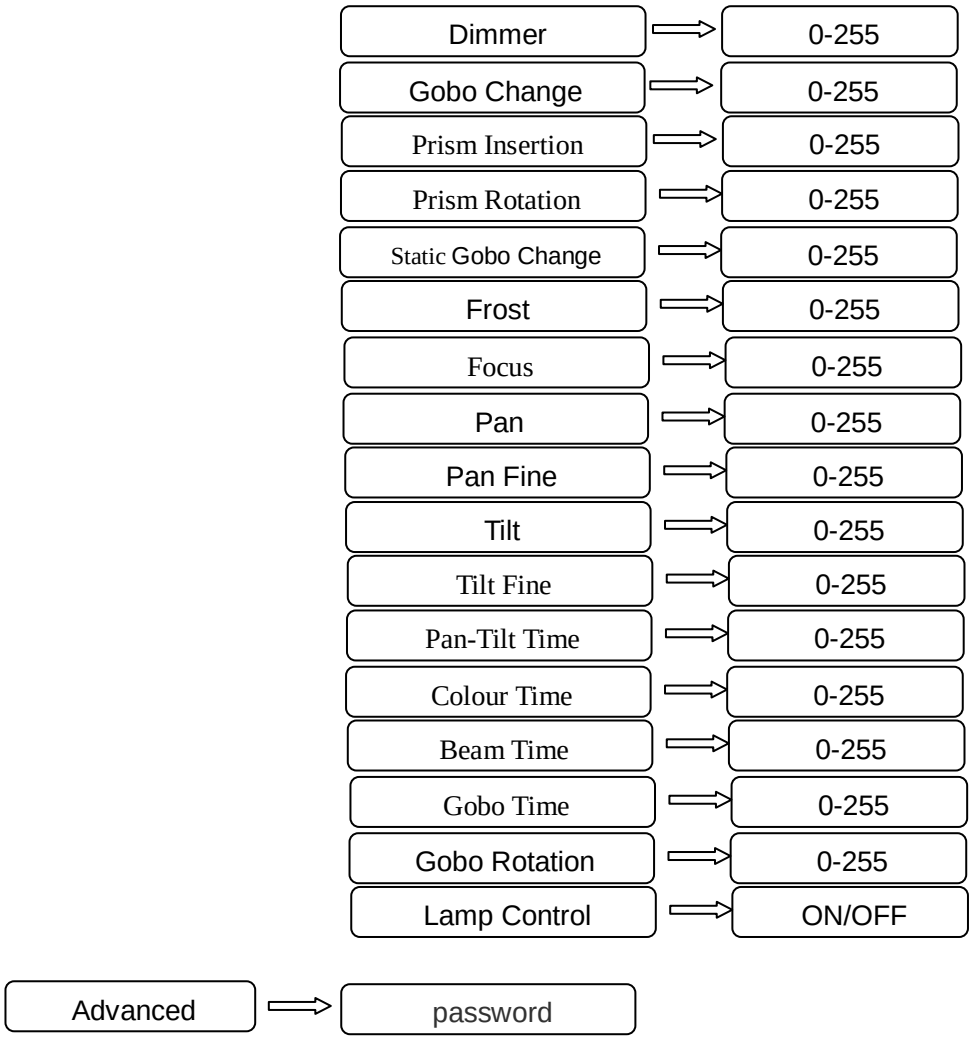
Use button switch and LCD display, can set the address code and function code easily.
Check or modify lighting function settings, Press the Set UP or OK button. LCD display panel will display main menus. Function operation menu all have corresponding submenu . Each menu all represent the specific functions of lamps, specific see below "operation menu" section.
Set or browse function setting of lamp, Press UP or DOWN key.
Press OK key to save your changes or to enter submenu, Press UP or DOWN can change value(Plus or reduce number).

Operation Menu:

- Menu Structure chart

Main Menu	Sub Menu	
Set Up	Run Mode	DMX
		AUTO
	DMX Address	0-512
	Channel Mode	16/20
	Invert Pan	ON/OFF
	Invert Tilt	ON/OFF
	Swap Pan-Tilt	ON/OFF
	Encoder Pan-Tilt	ON/OFF
	No DMX Signal	KEEP/CLEAP
	Display Power Save	ON/OFF
	Turn On Startup	ON/OFF
	Load Default	Ok/Cancel


Information
Software Version
M13-Y101
Total Fixture Hours
******
Partial Fixture Hours
******
Total Lamp Hours
******
Partial Lamp Hours
******
DMX Monitor
Program run
Colour Wheel
Stop/Strobe
Dimmer
Gobo Change
Gobo Rotation
Static Gobo Change
Prism Insertion
Prism Rotation
Focus
Pan
Pan Fine
Tilt
Tilt Fine
Frost
Reset
Lamp Control
Pan-Tilt Time
Colour Time
Beam Time
Gobo Time
System Errors
000
Manual
Rest
Ok/Cancel
Colour Wheel
0-255
Stop/Strobe
0-255



- Sub menu include Set Up, Information, Manual,Advanced Model
- **Set Up**

Press "**Set UP**" , and choose Man control by "**UP&DOWN**"，it will be show **Run Mode, DMX Address, Channel Mode, Invert Pan, Invert Tilt, Swap Pan-Tilt, Encoder Pan-Tilt, No DMX Signal, Display Power Save, Turn On Startup, Load Default**, to confirm by press "**OK**" button.

1. Press "**Run Mode**" , and choose **Run Mode** by "**UP&DOWN**"，it will be show **DMX** and **Auto**, mode, to confirm by press "**Ok**" button.
2. Press "**DMX Address Mode**" , and choose **DMX Address** by "**UP&DOWN**"，it will be show DMX Address 001-512 , to confirm by press "**Ok**" button.
3. Press "**Channel Mode**" , and choose **Channel Mode** by "**UP&DOWN**"，it will be show **16 or 20** , to confirm by press "**Ok**" button.
4. Press "**Invert Pan Mode**" , and choose **Invert Pan** by "**UP&DOWN**"，it will be show **ON/OFF** , to confirm by press "**Ok**" button.
5. Press "**Invert Tilt Mode**" , and choose **Invert Tilt** by "**UP&DOWN**"，it will be show **ON/OFF** , to confirm by press "**Ok**" button.
6. Press "**Swap Pan-Tilt Mode**" , and choose **Swap Pan-Tilt** by "**UP&DOWN**"，it will be show **ON/OFF** , to confirm by press "**Ok**" button.

7. Press "**Encoder Pan-Tilt**" , and choose **Encoder Pan-Tilt** by "**UP&DOWN**"，it will be show **ON/OFF** , to confirm by press "**Ok**" button.
8. Press "**No DMX Signal Mode**" , and choose **No DMX Signal** by "**UP&DOWN**"，it will be show **KEEP/CLEAP** , to confirm by press "**Ok**" button.
9. **Display Power Save** is screen saver. Press "**Display Power Save**" , and choose **Display Power Save** by "**UP&DOWN**"，it will be show **ON/OFF** , to confirm by press "**Ok**" button.
10. **Turn On Startup Mode** is turn on the lamp when the turn on the power.Press "**Turn On Startup Mode**" , and choose **Turn On Startup** by "**UP&DOWN**"，it will be show **ON/OFF** , to confirm by press "**Ok**" button.
11. **Load Default Mode** is Mode Rest. Press "**Load Default Mode**" , and choose **Load Default** by **"UP& DOWN"**，it will be show **Ok/Cancel**, to confirm bypress "**Ok**" button.

➢ **Information**

Press "**Information**" , and choose by "**UP&DOWN**"，it will be show **Software Version, Total Fixture Hours, Partial Fixture Hours, Total Lamp Hours, Partial Lamp Hours, DMX Monitor, System Errors** mode,

➢ **Manual**

Press "**Manual**" , and choose **Manual** by "**UP&DOWN**"，it will be show **Rest, Colour Wheel, Stop/Strobe, Dimmer, Gobo Change, Prism Insertion, Prism Rotation, Static Gobo Change, Frost, Focus, Pan, Pan Fine, Tilt, Tilt Fine, Pan-Tilt Time, Colour Time, Beam Time, Gobo Time, Gobo Rotation, Lamp Control**, to confirm by press "**OK**" button.

1. **Rest** Model is the light rest
2. **Colour Wheel, Stop/Strobe, Dimmer, Gobo Change, Prism Insertion, Prism Rotation, Static Gobo Change, Frost, Focus, Pan, Pan Fine, Tilt, Tilt Fine, Pan-Tilt Time, Colour Time, Beam Time, Gobo Time, Gobo Rotation** model are Press the **Ok** then pressing "UP&DWON" button, will show 001 to 255,. correcting by "**OK**" Button.
   ……
3. **Lamp Control** ,Press the **OK** then pressing "UP&DWON" button, will show **ON** to **OFF**,. correcting by "**OK**" Button.

➢ **Advanced**

Advanced mode is the factory mode

Maintenance:

To prolong the life of the projector, some maintenance work has to be done to ensure the optical system in good condition. If the projector does not function, check the fuses on the power socket of the projector, they should only be replaced by fuses of the same specification. Should these be damaged, call a qualified technician before replacement. The projector has thermal protection device that will switch off the projector in case of overheating. Should either of these operate, check that the fans are not blocked, and if they are dirty, clean them before switching on the projector again. Check that the fans are operational, if not, call a qualified technician.

☆**Any maintenance work should only be carried out by qualified technicians.**

Keeping The Product Clean:

To ensure the reliability of the projector, it should be kept clean. It is recommended that the fans should be cleaned every 15 days. The lens and dichroic colour filters should also be regularly cleaned to maintain an optimum light output.
Do NOT use any type of solvent on dichroic colour filters.

Cleaning frequency depends on the environment in which the fixture operates: damp, smoke or particularly dirty surroundings can cause greater accumulation of dirt on the unit's optics. A soft cloth and typical glass cleaning products should be used for cleaning. It is recommended to clean the external optics at least once every 15 days and clean the internal optics at least once every 60 / 90 days.
☆Do not use any organic solvent, e.g. alcohol, to clean housing of the apparatus.

Trouble Shooting:

Problem	Answer
The moving head light doesn't switch on.	Check the fuse the power socket Replace the lamp
Although shines, but the moving head lamp doesn't accept the instruction of the controller.	Check the digital start address and also check the connection situation of the communication control line
The moving head lamp only can work intermittently.	Inspect the power supply and voltage is whether normal. Make sure the fan is working well or fans and their filters not blocked
Defective projection	Make sure the lamp is within its life limit Remove dust or grease from the lenses.
The beam appears dim	heck the optics is clean or the lens in good condition(not cracked) Replace with a new lamp of the specified type and rating.

☆Other maintain work should by the specialist which has the experience to carry on.

Equipment and Appendix:

☆ 230W 7R Moving Head Light 1pcs
☆ Power Cable 1pcs
☆ XLR connector 1unit
☆ Light Hook 2pcs
☆ The Product of Instruction 1pcs

Channel List:(16/20CH)

Channel	CHANNEL MODE	
	16CH	20CH
1	Colour Wheel	Colour Wheel
2	Stop/Strobe	Stop/Strobe
3	Dimmer	Dimmer
4	Gobo1	Gobo1
5	Gobo Rotation	Gobo Rotation
6	Gobo2	Gobo2
7	Prism	Prism
8	Prism Rotation	Prism Rotation
9	Focus	Focus
10	Pan	Pan
11	Pan Fine	Pan Fine
12	Tilt	Tilt
13	Tilt Fine	Tilt Fine
14	Frost	Frost
15	Reset	Reset
16	Lamp Control	Lamp Control
17		Pan-Tilt Speed
18	FUNCTION (UNUSED)	Colour Rotation Speed
19		Dimmer-Prism-Frost Speed
20		Gobo Speed

Technical Parameters:

Voltage : 100~240V/50-60Hz
Power consumption:380W@(220V)
Bulb: Arclite MHD7R230 230W projection lamp
Lamp : Arclite 230W ,Color temperature : 8500K
Color: 14 color + White
Gobo1:. 8rotating gobo + White
Gobo2: 14 fixed gobo + White
Prism : rotation 3-face prism, Bilateral rotation .frost function
Dimmer : 0-100% linear adjustment ,Strobe(0.5-9 times/ second)
Beam angle : parallel beam angel 15 – 30 °
Channel : 16/20CHS
Control mode : DMX512, Automatic and Master/ slave mode
Pan: X axis 540 °automatically accurate positioning
Tilt:Y axis 270 °automatically accurate positioning
Control Panel: Touch LCD display panel
Protection grade:IP20
Gross Weight: 19.5 kg
Package Size: 450 x 430x 530cm